

# Trees and Forest Study Guide

## Grade 6 Science

Use this study guide to help you get ready for your unit test. If a word is bolded, you should know what word means. For each point, you should write examples and information that would answer that question.

1. I can identify reasons why trees and forests are valued

2. I can tell the different between **abiotic** and **biotic** factors that live in an **ecosystem**.  
I can classify living things as **producers**, **consumers**, or **decomposers**.

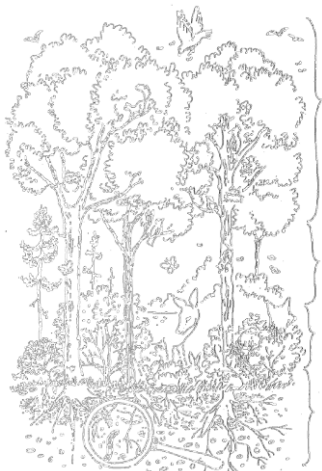
Abiotic ( _____ things)	Biotic ( _____ things)

A producer eats :

A consumer eats :

A decomposer eats :

3. I can name plants and animals that live at different levels of the forest. I know the 4 different levels of the forest



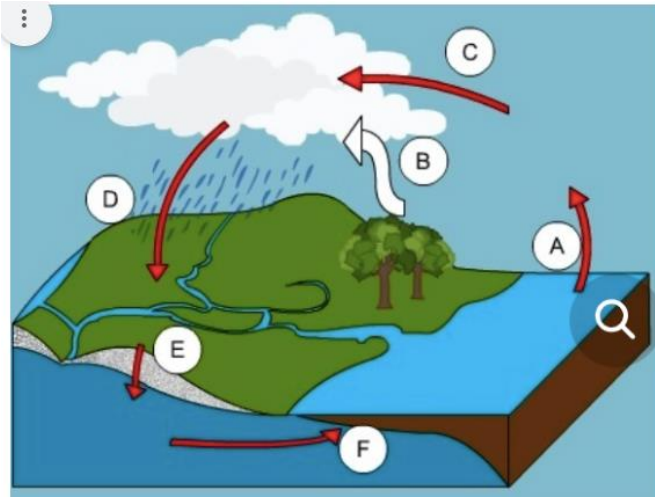
Level : \_\_\_\_\_ Animal : \_\_\_\_\_

Level : \_\_\_\_\_ Animal : \_\_\_\_\_

Level : \_\_\_\_\_ Animal : \_\_\_\_\_

Level : \_\_\_\_\_ Animal : \_\_\_\_\_

4. I can describe the **nutrient cycle** and **water cycle**. I know the roles that trees play in both of those cycles.



5. I can list the characteristics of a tree. I know the difference between **deciduous** and **coniferous** trees.

Deciduous	Coniferous

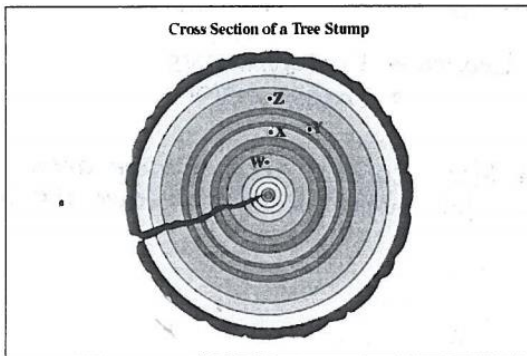
For something to be considered a tree it must have the following three things:

6. I can classify leaves based on their shape, arrangement, and branching patterns

What does the shape look like? What does the edge of the leaf feel like? How are the leaves arranged on the branch (Alternate, opposite)? Is it from a deciduous or coniferous tree? To help study for this question, have someone show you a leaf from the internet and you describe it to them.



7. I can look a tree cookie and determine different events that have happened throughout a tree's life.



If the rings on a tree cookie are spaced evenly it means:

If there are bruises on the tree it means:

How can you tell how old a tree is from a tree cookie?

8. I can identify different groups of people that use the forest. I know jobs that are related to the forest and why different groups like different parts of the forest.

Five different jobs related to the forest are:

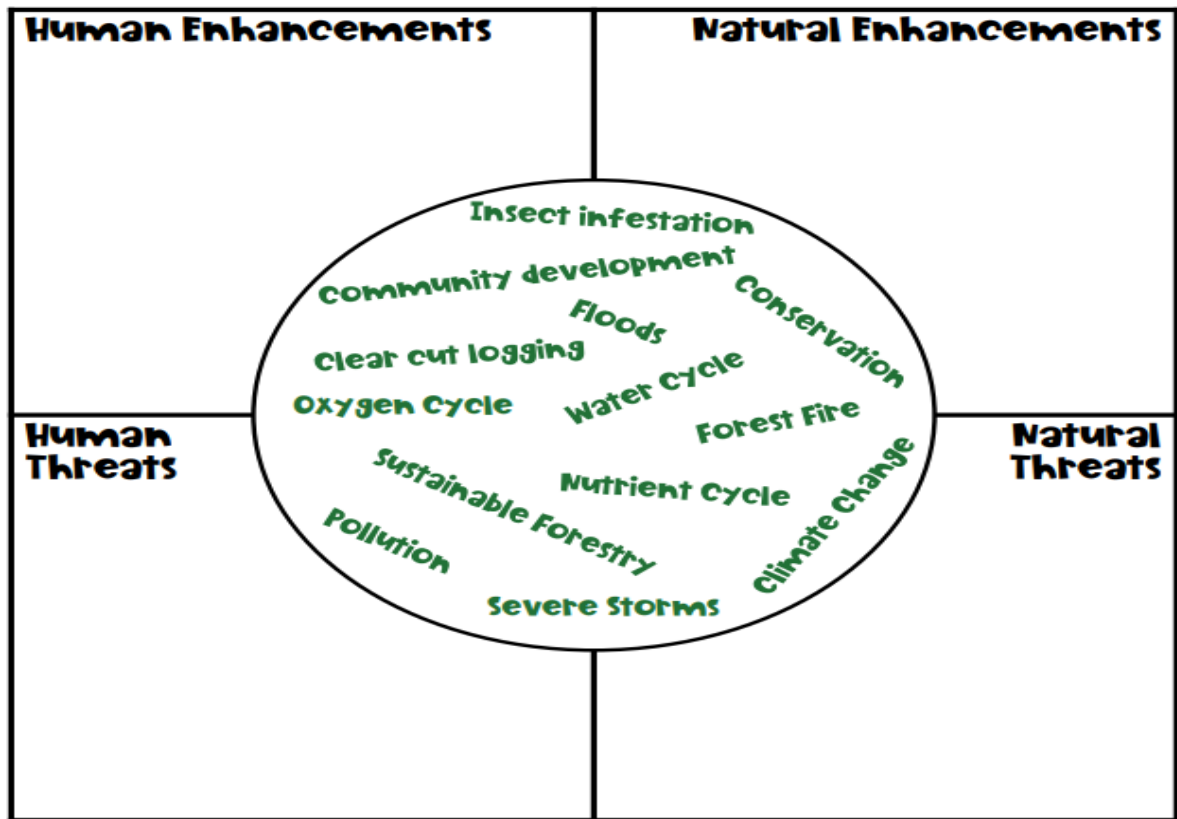
9. I know ways that the forest is used in present day and ways that the forest has been used in the past

Past	Present

Match the following sentences into the past or present

- Indigenous People become Alberta's original forest manager
- The first humans arrive in Alberta using trees for heat, cooking, and shelter
- The fur trade industry realizes the importance of forest management
- Alberta uses sawmills, logging, and heavy machinery to cut down and manage forests
- Alberta uses horses and saws to cut down and manage forests
- Alberta forests are owned by the public and managed by the government
- Before you can harvest trees, a company must make a forest management plan

10. I can identify human actions and natural causes that enhance or threaten forests. I know what the words below mean.



11. I know different issues regarding forest use and can give suggestions on how to fix problems in the forest

What is the mountain pine beetle and other insects doing to Alberta trees?

Why is it important that companies do not cut too many trees down in a certain area at a time?